

## CLAIMS

1           1.    A GPRS capable mobile terminal, comprising:  
2           processing circuitry for receiving and transmitting  
3           data and voice signals; and  
4           QoS logic circuitry for determining an implied QoS  
5           rating based upon a TLLI number received from a base  
6           station.

1           2.    The GPRS capable mobile terminal of claim 1  
2           further comprising audio processing circuitry for  
3           converting analog voice signals into communication  
4           signals and for converting communication signals into  
5           analog voice signals.

1           3.    The GPRS capable mobile terminal of claim 2  
2           further comprising a microphone coupled to provide analog  
3           voice signals to the audio processing circuitry .

1           4.    The GPRS capable mobile terminal of claim 2  
2           further comprising a speaker coupled to receive analog  
3           voice signals from the audio processing circuitry.

1           5.    The GPRS capable mobile terminal of claim 1  
2           wherein the QoS logic circuitry defines logic that  
3           prompts the mobile terminal to transmit a previously

4 received TLLI number to a base station each time it  
5 registers its presence.

1 6. The GPRS capable mobile terminal of claim 1  
2 wherein the QoS logic circuitry defines logic that  
3 prompts the mobile terminal to transmit a previously  
4 received TLLI number to a base station each time it  
5 requests resources to transmit communication signals.

1 7. The GPRS capable mobile terminal of claim 1  
2 wherein the QoS logic circuitry defines logic that  
3 prompts the mobile terminal to determine a QoS rating  
4 assigned to it based upon a value of a received TLLI  
5 number and, responsive thereto, to transmit communication  
6 signals at a data rate that corresponds to the determined  
7 QoS rating.

1           8.    A method in a mobile terminal for determining  
2   an assigned quality of service (QoS) rating and for  
3   requesting system resources, comprising:  
4       receiving a temporary logical link identifier (TLLI)  
5   within a Gb interface signal from a base station, which  
6   TLLI was generated by a serving GPRS support node; and  
7       inferring an assigned QoS rating by analyzing the  
8   value of the TLLI to determine a TLLI grouping and  
9   corresponding QoS rating. .

1           9.    The method of claim 8 wherein the mobile  
2   terminal determines that it has been assigned a first QoS  
3   rating if the TLLI has an odd value and a second QoS  
4   rating if the TLLI has an even value.

1           10.   The method of claim 8 wherein the mobile  
2   terminal determines that it has been assigned a first QoS  
3   rating if the TLLI has an even value and a second QoS  
4   rating if the TLLI has an odd value.

1           11. The method of claim 8 wherein the mobile  
2 terminal determines that it has been assigned a first QoS  
3 rating if the TLLI has a value within a first range of  
4 values and a second QoS rating if the TLLI has a value in  
5 a second range of values.

1           12. The method of claim 8 further including the  
2 step of transmitting the received TLLI number to the base  
3 station each time the mobile terminal requests a  
4 communication link for transmitting communication  
5 signals.

1           13. The method of claim 8 further including the  
2 step of transmitting the received TLLI number to a new  
3 base station each time the mobile terminal registers its  
4 presence with the new base station.

1 14. A GPRS capable mobile terminal, comprising:  
2 radio circuitry for transmitting and receiving  
3 communication signals over a wireless medium;  
4 audio circuitry for converting audio signals to  
5 sound and sound signals to audio; and  
6 logic circuitry for determining a quality of service  
7 (QoS) rating based upon a received communication signal's  
8 numerical characteristics.

1 15. The GPRS capable mobile terminal of claim 14  
2 wherein the logic circuitry determines the QoS rating  
3 based upon the numerical characteristics of a received  
4 TLLI number.

1 16. The GPRS capable mobile terminal of claim 14  
2 wherein the QoS rating is characterized by whether the  
3 received communication signal's numerical characteristic  
4 is even or odd.

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1           17. The GPRS capable mobile terminal of claim 14  
2 wherein the QoS rating is characterized by whether the  
3 received communication signal's numerical characteristic  
4 is within one of a plurality of groups of numbers wherein  
5 each group of numbers represents a QoS rating.

1           18. The GPRS capable mobile terminal of claim 14  
2 wherein the mobile terminal transmits its QoS rating to a  
3 base station every time it requests communication  
4 resources.

1           19. The GPRS capable mobile terminal of claim 14  
2 wherein the mobile terminal transmits a number whose  
3 characteristic reflects its QoS rating to a base station  
4 every time it requests communication resources.

1           20. The GPRS capable mobile terminal of claim 19  
2 wherein the number is a TLLI number.

1        21. A wireless transmitter, comprising:  
 2        circuitry for receiving a signal comprising a number  
 3        reflecting a QoS rating and for determining the QoS  
 4        rating for wireless transmissions based upon a  
 5        characteristic of the number; and  
 6        circuitry for transmitting, over a wireless  
 7        communication link, a second signal comprising the number  
 8        reflecting the QoS rating and for determining the QoS  
 9        rating for wireless transmissions based upon a  
 10        characteristic of the number.

1        22. The wireless transmitter of claim 21 wherein  
 2        the number is a TLLI number.